

**WARSC LS7 Metadata Template v1.0**  
**Ver 1.0 - 4/16/02**

**Identification\_Information:****Citation:****Citation\_Information:**

Originator: Washington State Remote Sensing Consortium (WARSC) - Olympia, WA

Publication\_Date: 20020131

Title: WARSC Landsat 7 - TCL704502720000817

Geospatial\_Data\_Presentation\_Form: remote-sensing image

Online\_Linkage: n/a

**Description:**

**Abstract:** This geometrically terrain-corrected LandSat7 image data set is made available through the Washington State Remote Sensing Consortium (WARSC). The data provided includes bands 1, 2, 3, 4, 5, 6, 7, 8 and 9. See Process Description for additional details.

**Purpose:** This specific dataset is one of seventeen scenes purchased and terrain corrected to create a statewide coverage of LandSat7 imagery from the year 2000 inventory.

**Supplemental\_Information:**

The Landsat program provides a continuing stream of remote sensing data for monitoring and managing the Earth's resources. The launch of the Landsat-7 satellite on April 15, 1999, marks the addition of the latest satellite to the Landsat satellite series. Landsats 1, 2, and 3 carried the multispectral scanner (MSS) sensor and experimental return beam vidicon cameras. The Landsat-4 satellite carried the MSS and thematic mapper (TM) sensors as does the still currently flying Landsat-5 satellite. The sixth satellite in the Landsat series was unsuccessfully launched and did not achieve orbit. The Landsat-7 satellite carries the enhanced thematic mapper plus (ETM+) sensor. The launch of the Landsat-7 satellite is part of an ongoing mission to provide quality remote sensing data in support of research and applications activities.

**Time\_Period\_of\_Content:****Time\_Period\_Information:****Single\_Date/Time:**

Calendar\_Date: 20000817

Time\_of\_Day: 18:40:32

Currentness\_Reference: ground condition

**Status:**

Progress: Complete

Maintenance\_and\_Update\_Frequency: None Planned

**Spatial\_Domain:****Bounding\_Coordinates:**

West\_Bounding\_Coordinate: -121.89

East\_Bounding\_Coordinate: -118.81

North\_Bounding\_Coordinate: 48.42

South\_Bounding\_Coordinate: 46.46

**Keywords:****Theme:**

Theme\_Keyword: Landsat 7

Theme\_Keyword: Remote Sensing

Theme\_Keyword: Satellite Images  
Theme\_Keyword: Imagery  
Theme\_Keyword: Infrared Imagery  
Theme\_Keyword: Thematic Mapper+  
Theme\_Keyword: TM  
Theme\_Keyword: Radiance  
Theme\_Keyword: Visible Imagery  
Theme\_Keyword: Raster  
Theme\_Keyword: ETM+  
Theme\_Keyword: Reflectance  
Theme\_Keyword: Thermal  
Theme\_Keyword: Panchromatic

Place:

Place\_Keyword: USA  
Place\_Keyword: WA  
Place\_Keyword: Washington State  
Place\_Keyword: Douglas County  
Place\_Keyword: Chelan County  
Place\_Keyword: Kittitas County  
Place\_Keyword: Grant County  
Place\_Keyword: Moses Lake  
Place\_Keyword: Wenatchee  
Place\_Keyword: Lake Chelan  
Place\_Keyword: Colockum Wildlife Area  
Place\_Keyword: L.T. Murry Wildlife Area  
Place\_Keyword: Wenas Wildlife Area  
Place\_Keyword: Wenatchee National Forest  
Place\_Keyword: Yakima Training Center

Access\_Constraints: No redistribution outside the Washington State Remote Sensing Consortium without Consortium written permission.

Point\_of\_Contact:

Contact\_Information:

Contact\_Person\_Primary:

Contact\_Person: Jeff Holm

Contact\_Organization: Washington Department of Information Services

Contact\_Position:

Washington State Geographic Information Council  
Coordinator

Contact\_Address:

Address\_Type: mailing and physical address

Address: 1110 SE Jefferson Street

Address: P.O. Box 42445

City: Olympia

State\_or\_Province: WA

Postal\_Code: 98504-2445

Country: USA

Contact\_Voice\_Telephone: (360) 902.3447

Data\_Set\_Credit:

Washington State Remote Sensing Consortium and EROS Data Center

Security\_Information:

Security\_Classification: Unclassified

Browse\_Graphic:

Browse\_Graphic\_File\_Name:

[http://www.wa.gov/gic/tm7/acq01\\_images/4527\\_081700.jpg](http://www.wa.gov/gic/tm7/acq01_images/4527_081700.jpg)

**Data\_Quality\_Information:****Attribute Accuracy:**

Attribute Accuracy Report: Nominal ground sample distances or pixel sizes include 30 meters each for the six visible, near-infrared, and shortwave infrared bands, 60 meters for the thermal infrared band, and 15 meters for the panchromatic band.

Logical Consistency Report: Landsat-7 data are collected from a nominal altitude of 705 kilometers in a near-polar, near-circular, Sun-synchronous orbit at an inclination of 98.2 degrees, imaging the same 183-km swath of the Earth's surface every 16 days.

Completeness Report: The orbital pattern equates to a 233-orbit cycle with a swath sidelap that varies from approximately 7 percent at the Equator to nearly 84 percent at 81 degrees north or south latitude. The Landsat scenes are mapped to a global notation system called the Worldwide Reference System (WRS), annotating the nominal scene center of Landsat imagery using Path and Row designators.

**Positional Accuracy:****Horizontal Positional Accuracy:****Horizontal Positional Accuracy Report:**

Number of EROS Geometric QA: Control Points 11; RMS Along Track 4.03; RMS Across Track 5.02; RMS Combined 6.46 - See summary report (often referred to as EROS Work Order Report) in Documentation Directory on CD - See WARSC QA/QC report in CD Documentation Directory

**Lineage:****Source\_Information:****Source\_Citation:****Citation\_Information:**

Originator: USGS/EROS Data Center in Sioux Falls, SD

Publication\_Date: 20000817

Publication\_Time: 18:40:32

Title: EROS Data Center Landsat 7 Imagery 7045027000023050

Source\_Scale\_Denominator: Resolution 30 m

Type\_of\_Source\_Media: CD-ROM

**Source\_Information:****Source\_Citation:****Citation\_Information:**

Originator: Washington State Department of Natural Resources - Olympia, WA

Publication\_Date: 20010206

Title: Washington State 30 meter DEM (resampled from USGS 10m DEM)

Source\_Scale\_Denominator: Resolution 30 m

**Process\_Step:**

Process\_Description: This geometrically terrain corrected data product was created using EROS Data Center's National Landsat Archives Program L1T processing. Terrain correction utilized WA Department of Natural Resources 30 meter DEM (resampled from USGS 10 meter DEM). Metadata about these 10 meter DEMs can be accessed through <http://edcwww.cr.usgs.gov/webglis/index.html>.

Resampling method was cubic convolution. EROS delivered data in NDF/BSQ format, WARSC reformatted for delivery in GEOTIFF. For details regarding the general NLAPS process Please see <http://edcwww.cr.usgs.gov/glis/hyper/guide/nlaps.html>. For specifics about this data product please see summary of processing history

report (also referred to as Work Order Report) or full Processing History Report in Documentation Directory on CD

Process\_Date: 20011015  
Process\_Time: 12:40:39  
Process\_Contact:  
  Contact\_Information:  
    Contact\_Person\_Primary:  
      Contact\_Person: EROS Data Center Customer Service  
      Contact\_Organization: EROS Data Center  
    Contact\_Position:  
    Contact\_Voice\_Telephone: 605-594-6151

  Contact\_Electronic\_Mail\_Address: [custserv@usgs.gov](mailto:custserv@usgs.gov)

Cloud\_Cover: <= 10

Spatial\_Data\_Organization\_Information:  
  Direct\_Spatial\_Reference\_Method: Raster  
  Raster\_Object\_Information:  
    Raster\_Object\_Type: Pixel  
    Row\_Count: 7243  
    Column\_Count: 7606  
    Vertical\_Count: 9

Spatial\_Reference\_Information:  
  Horizontal\_Coordinate\_System\_Definition:  
    Grid\_Coordinate\_System:  
      Grid\_Coordinate\_System\_Name: State Plane Coordinate System 1983  
      State\_Plane\_Coordinate\_System:  
        SPCS\_Zone\_Identifier: 4602  
    Planar\_Coordinate\_Information:  
      Planar\_Coordinate\_Encoding\_Method: row and column  
      Coordinate\_Representation:  
        Abscissa\_Resolution: 30  
        Ordinate\_Resolution: 30  
      Planar\_Distance\_Units: meters

Geodetic\_Model:  
  Horizontal\_Datum\_Name: North American Datum of 1983  
  Ellipsoid\_Name: NAD83

Distribution\_Information:  
  Distributor:  
    Contact\_Information:  
      Contact\_Person\_Primary:  
        Contact\_Person: Jeff Holm  
        Contact\_Organization: Washington Department of Information Services  
      Contact\_Position:  
        Washington State Geographic Information Council  
        Coordinator  
      Contact\_Address:  
        Address\_Type: mailing and physical address

Address: 1110 SE Jefferson Street  
Address: P.O. Box 42445  
City: Olympia  
State\_or\_Province: WA  
Postal\_Code: 98504-2445  
Country: USA

Contact\_Voice\_Telephone: 360.902.3447

Distribution\_Liability: Although these data have been processed successfully on a computer system at the USGS, no warranty expressed or implied is made by the USGS or WARSC regarding the use of the data on any other system, nor does the act of distribution constitute any such warranty. The WARSC will warrant the delivery of this product in source computer-readable format and will offer replacement CD when the physical medium is delivered in damaged condition. Requests for adjustment of credit must be made within 30 days from the date of this shipment from the order site.

Standard\_Order\_Process:

Digital\_Form:

Digital\_Transfer\_Information:

Transfer\_Size: 260 (approx. in megabytes)

Metadata\_Reference\_Information:

Metadata\_Date: 20020111

Metadata\_Contact:

Contact\_Information:

Contact\_Organization\_Primary:

Contact\_Organization:

Washington State Remote Sensing Consortium

Contact\_Person: Jeff Holm

Contact\_Position:

Contact\_Address:

Contact\_Voice\_Telephone: 360.902.3447

Metadata\_Standard\_Name:

FGDC Content Standards for Digital Geospatial

Metadata

Metadata\_Standard\_Version: FGDC-STD-001-1998

Metadata\_Time\_Convention: local time